

Translation

PATENT COOPERATION TREATY

PCT

PCT/JP2003/010208



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference T2003-008	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/010208	International filing date (day/month/year) 11 August 2003 (11.08.2003)	Priority date (day/month/year) 19 August 2002 (19.08.2002)
International Patent Classification (IPC) or national classification and IPC H03H 7/09		
Applicant TDK CORPORATION		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
- These annexes consist of a total of \_\_\_\_\_ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 25 December 2003 (25.12.2003)	Date of completion of this report 01 October 2004 (01.10.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/010208

## I. Basis of the report

### 1. With regard to the elements of the international application:\*

- ☒ the international application as originally filed
- ☐ the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the claims:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, as amended (together with any statement under Article 19  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the drawings:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
 pages \_\_\_\_\_, as originally filed  
 pages \_\_\_\_\_, filed with the demand  
 pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

### 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

### 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

### 4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

### 5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement****1. Statement**

Novelty (N)	Claims	1-14	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-14	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims		NO

**2. Citations and explanations**

Document 1: JP, 2002-204189, A (TDK Corp.), 19 July, 2002 (19.07.19), full text, all drawings, & WO, 02-37674, A1, & US, 2002/0063474, A1, & KR, 2002065618, A, & EP, 1271773, A1, & CN, 1394387, A, & TW, 516270, A

Document 2: JP, 2000-201044, A (Mitsubishi Electric Corp.), 18 July, 2000 (18.07.00), full text, all drawings (Family: none)

Document 3: JP, 10-303674, A (Sony Corp.), 13 November, 1998 (13.11.98), full text, all drawings (Family: none)

Document 4: JP, 9-102723, A (Narihiro Imoto), 15 April, 1997 (15.04.97), full text, all drawings (Family: none)

Document 5: JP, 2-241233, A (Thermo King Corp.), 25 September, 1990 (25.09.90), Fig. 3, & US, 4903006, A, & DE, 4003653, A, & FR, 2643199, A, & DK, 9000401, A

Document 6: JP, 57-8247, Y2 (Oki Engineering Co., Ltd.), 17 February, 1982 (17.02.82), full text, all drawings (Family: none)

The subject matters of claims 1-7 do not appear to involve an inventive step in view of documents 1-3 cited in the ISR and newly cited document 5.

Especially, document 1 describes a common mode signal suppressing circuit for suppressing the common mode signals propagating in the same phase in two conductive wires, in which an opposite-phase signal transmission means connected with the said two conductive wires, for transmitting an opposite signal for suppressing a common mode signal is provided (1) to detect a common mode signal, (2) to feed an opposite-phase signal opposite in phase to the detected common mode signal, and (3) to inject the said opposite-phase signal into the said two conductive wires.

Furthermore, documents 2, 3 and 5 describe that a signal is injected using a coupling among plural windings.

Therefore, a person skilled in the art could have easily conceived of injecting a signal as described in documents 2, 3 and 5 also in the common mode signal suppressing circuit described in document 1.

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**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of : V.2

The subject matters of claims 8-14 do not appear to involve an inventive step in view of documents 1-4 cited in the ISR and newly cited documents 5 and 6.

Especially, document 1 describes a normal mode signal suppressing circuit.

Especially, documents 4 and 6 respectively describe that first and second inductance elements inserted into a conductive wire at a first position are provided.